

**Continuous wave THz source based on an electrically tunable monolithic two-color  
semiconductor diode laser**

Jared O. Gwaro, Carsten Brenner, Bernd Sumpf, Andreas Klehr, Jörg Fricke, and Martin R.  
Hofmann

**2019 Conference on Lasers and Electro-Optics Europe and European Quantum Electronics  
Conference**

**Abstract**

We present a compact coherent CW THz source, based on optical heterodyning of a monolithically integrated two-color distributed Bragg reflector (DBR) semiconductor laser emitting at 785 nm with fiber coupled ion-implanted gallium Arsenide (GaAs) photoconductive antennas.

© 2019 IEEE